

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 81-5

WATER RECLAMATION REQUIREMENTS FOR:

FRANCISCAN VINEYARDS
RUTHERFORD, NAPA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter Board) finds that:

1. Franciscan Vineyards (hereinafter discharger) submitted a Report of Waste Discharge dated November 14, 1979 and provided additional information by letter dated January 2, 1980 and letters received on August 15, 1980 and November 14, 1980.
2. The discharger describes the waste as follows:
 - a. Waste No. 1 consists of a maximum of 5,000 gallons per day of sanitary sewage from 22 employees and an average of 500 visitors per day. The waste is discharged into a 1500 gallon septic tank and subsurface leachfields located on the discharger's property.
 - b. Waste No. 2 is waste from the production of wine including waste from crushing operations in addition to that from storage and bottling procedures. The estimated total annual waste will increase from 300,000 to 500,000 gallons. The waste will be biologically oxidized and stored in two aerated oxidation ponds with 1.425 million gallons capacity, and then used for irrigation on 1.43 acres of grassland. Waste No. 2 will be totally contained on the discharger's property.
3. The Board adopted a Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) in April 1975. The Basin Plan contains water quality objectives for the Napa Valley area.
4. The beneficial uses of the Napa River downstream from the winery property are:
 - a. Domestic water supply for irrigating family gardens.
 - b. Agricultural water supply for stock watering, irrigation and frost protection.
 - c. Water contact recreation.
 - d. Fish migration and habitat.

- e. Preservation and enhancement of fish, wildlife and other aquatic resources.
 - f. Esthetic enjoyment.
5. The beneficial uses of the Napa Valley ground waters as set forth in the Basin Plan include:
- a. Domestic water supply.
 - b. Agricultural water supply.
6. The existing waste discharge requirements in Order No. 72-69 are no longer applicable.
7. As this project is adoption of waste discharge requirements for an increase of waste flow for an existing discharge, this Board, pursuant to Water Code Section 13389, is not required to comply with the provisions of Chapter 3 of Division 13 of the Public Resources Code (California Environmental Quality Act).
8. The Board has notified the discharger and interested agencies and persons of its intent to prescribe waste discharge requirements for the discharge and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.
9. The Board, in a public meeting, heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED, pursuant to the provisions of Division 7 of the California Water Code and regulations adopted thereunder, that the discharger shall comply with the following:

A. Prohibitions

- 1. The collection, treatment, and reclamation or disposal of waste shall not create a nuisance as defined in Section 13050(m) of the California Water Code.
- 2. There shall be no bypass or overflow of waste to waters of the State either at the treatment facility or from the collection system.
- 3. The waste shall not be allowed to escape from the discharger's irrigation or disposal area into waters of the State via surface flow, resurfacing after percolation or airborne spray.
- 4. The waste shall not cause degradation of any ground water so as to impair beneficial use.
- 5. Waste no. 1 or sanitary sewage from any other source shall not be discharged to the aeration ponds or onto the irrigation area.

B. Discharge Specifications

1. Waste within one foot of the surface of the oxidation ponds shall meet the following limits at all times:

Dissolved Oxygen 2.0 mg/l minimum

Dissolved Sulfide 0.1 mg/l maximum

pH 6.0 minimum
 9.0 maximum

2. Waste as discharged to the spray irrigation area shall meet the following quality limit at all times:

5-day BOD 40 mg/l maximum

3. A minimum freeboard of at least 2 foot shall be maintained in the oxidation ponds.
4. The oxidation ponds shall be protected against erosion, washout and flooding from a flood having a predicted frequency of once in 100 years.
5. Waste discharged through leach lines into the soil shall be kept below ground surface.

C. Reclaimed Wastewater Use Limitations

1. Revised maps must be submitted before any future change is made in the area used for irrigation or disposal.
2. Wastewater irrigation ponding which could provide a breeding area for mosquitoes shall be prevented.

D. Provisions

1. The discharger shall comply with the Self-Monitoring Program as ordered by the Executive Officer.
2. The discharger shall file with this Board a report of any material change or proposed change in the character, treatment, or volume of this waste discharge. For the purpose of these requirements, this includes any proposed change in the boundaries, or ownership of the property.
3. The discharger shall permit the Regional Board:
 - a. Entry upon premises in which an effluent source is located or in which any required records are kept;
 - b. Access to copy any records required to be kept under terms and conditions of this Order;

- c. Inspection of monitoring equipment or records; and
 - d. Sampling of any discharge.
- 4. The discharger shall maintain in good working order and operate as efficiently as possible any facility or control system installed by the discharger to achieve compliance with the waste discharge requirements.
 - 5. Collected screenings, sludges, and other solids removed from liquid waste shall be hauled to a class II solids waste disposal site or worked into the vineyard land in a way that will not cause excessive odor or nuisance.
 - 6. This Board requires the discharger to file with the Board, within ninety (90) days after the effective date of this Order, a technical report on his preventive (failsafe) and contingency (cleanup) plans for controlling accidental discharges, and for minimizing the effect of such events. The technical report should:
 - a. Identify the possible sources of accidental loss, untreated waste bypass, and contaminated drainage. Loading and storage areas, power outage, waste treatment unit outage, and failure of process equipment, tanks and pipes should be considered.
 - b. Evaluate the effectiveness of present facilities and procedures and state when they became operational.
 - c. Describe facilities and procedures needed for effective preventive and contingency plans.

This Board, after review of the technical report, may establish conditions which it deems necessary to control accidental discharges and to minimize the effects of such events. Such conditions may be incorporated as part of this Order, upon notice to the discharger.

- 7. Order No. 72-69 is hereby rescinded.

I, Fred H. Dierker, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on January 21, 1981.

Attachments:

Standard Provisions, Reporting
Requirements & Definitions dated
April 1977

FRED H. DIERKER
Executive Officer

